

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC SIGNAL WITH APS AND CPS UPGRADES AT THE INTERSECTION OF MD 193 (UNIVERSITY BLVD) AND REEDIE DRIVE IN MONTGOMERY COUNTY. MD 193 IS CONSIDERED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA 2 PHASE PEDESTRIAN ACTUATED MODE, FULL TRAFFIC-ACTUATED, SOLID STATE DIGITAL CONTROLLER. THE NORMAL OPERATION FOR MD 193 THROUGH MOVEMENTS WILL BE FLASHING YELLOW. THE REEDIE DRIVE NORMAL OPERATION WILL BE FLASHING RED. AUDIBLE PEDESTRIAN SIGNALS SHALL BE INSTALLED IN THE NORTHEAST AND SOUTHEAST QUADRANTS OF THE INTERSECTION AND SHALL CONTROL CROSSING ALONG THE EAST LEG OF THE INTERSECTION ONLY.

UPON ACTIVATION OF THE PEDESTRIAN PHASE TO CROSS MD 193, ALL INTERSECTION VEHICLE MOVEMENTS ARE TO STOP WITH THE PEDESTRIAN INDICATION ACROSS THE EAST LEG OF THE INTERSECTION.

SPECIAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.
- DISCONNECTING AND SPLICING OF INTERCONNECT CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN THE INTERCONNECT CABLE INTO THE BASE OF EACH CABINET AND PROPERLY TAG THE CABLE. ALL CONTROLLER CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT KAMAL HAMUD AT (240) 777-8761 SEVENTY-TWO HOURS IN ADVANCE OF INTENDED WORK.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- APS WILL FUNCTION AS FOLLOWS:

TO CROSS MD 193

- WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS UNIVERSITY AT REEDIE".
- WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

- THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

MR. JEFFREY WENTZ, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7318
MR. AUGIE REBISH, ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (301) 513-7350
MR. VERNON STINNETT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304
MR. RICHARD L. DAFF SR., CHIEF - TRAFFIC OPERATIONS DIVISIONS
PHONE: (410) 787-7630

THE POWER COMPANY REPRESENTATIVE IS:

MR. STEVE CUSTER
POTOMAC ELECTRIC POWER COMPANY
8300 OLD MARLBORO PIKE
UPPER MARLBORO, MARYLAND 20772
PHONE: (301) 548-4335
MR. KAMAL HAMUD, CHIEF TRAFFIC OPERATIONS DIVISION
MONTGOMERY COUNTY
PHONE: (240) 777-8761
MR. KEITH LORD
MONTGOMERY COUNTY
PHONE: (301) 279-1291
MR. SONY BAILEY
SIGN SHOP
PHONE: (410) 787-7676

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
973023	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: R10-3(1) (9"x15") SIGN TO READ, "UNIVERSITY BLVD." POLE MOUNT W11A-2 (30"x30") "PEDESTRIAN CROSSING (SYMBOL)" W16-7p (30"x24") "DIRECTIONAL ARROW - DIAGONAL"	SF EA EA EA	45 2 4 4

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	1
585412	12 INCH WHITE HEAT APPLIED PREFORMED THERMOPLASTIC PAVEMENT MARKING	LF	650
585424	24 INCH WHITE HEAT APPLIED PREFORMED THERMOPLASTIC PAVEMENT MARKING	LF	125
800000	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	1
800000	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND SIGN	EA	2
800000	2-WIRE CENTRAL CONTROL UNIT	EA	1
800000	8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	5
800000	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION	EA	2
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	2
801104	WOOD SIGN SUPPORT 4 INCH X 4 INCH	LF	50
801607	INSTALL ALUMINUM SIGN	SF	45
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	30
805135	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	30
813022	REMOVE EXISTING GROUND MOUNTED SIGN	SF	120
818004	10 FOOT BREAKAWAY PEDESTAL POLE	EA	2
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	18
860292	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	1
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	550
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	550

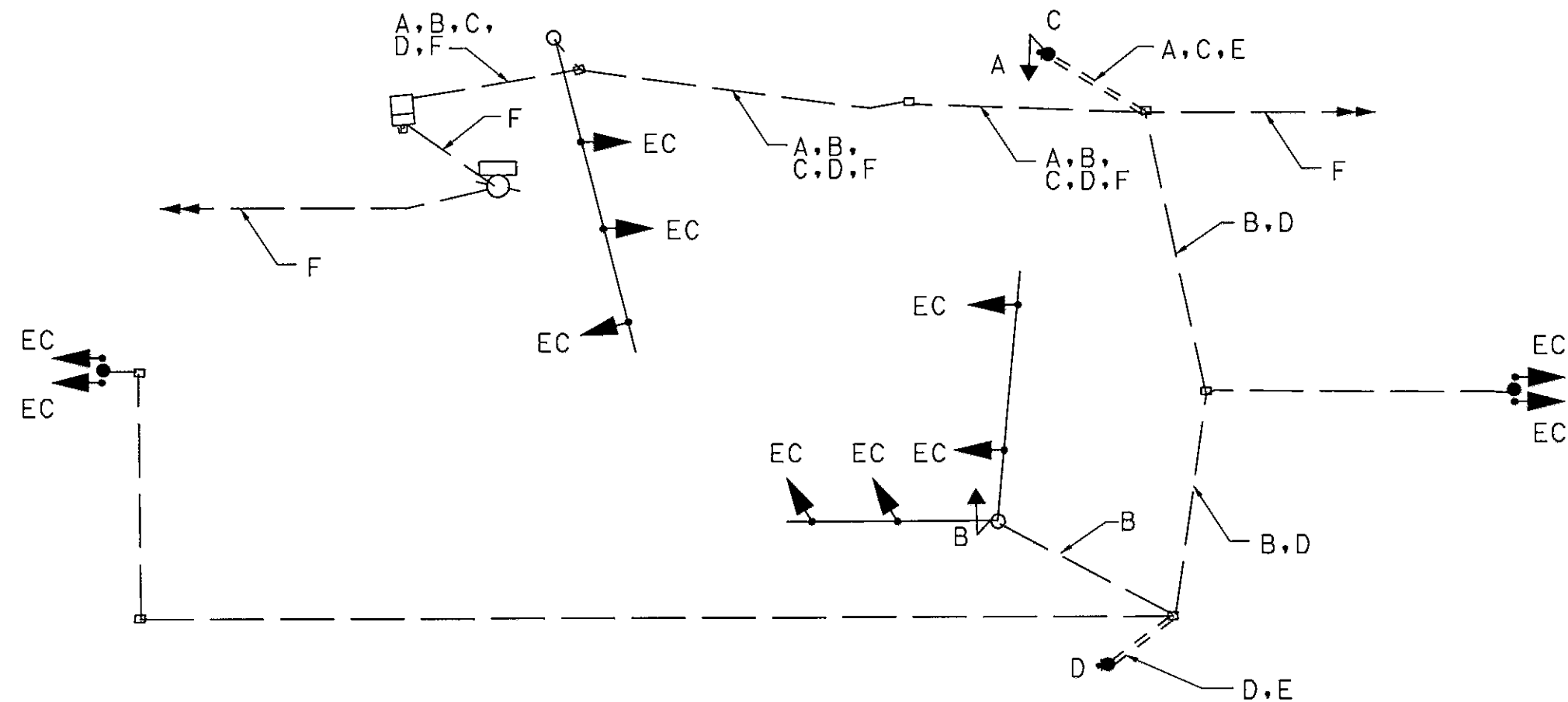
PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	
	(R) (Y) (V)	(R) (Y) (V)	(R) (Y) (V)	(R) (Y) (V)	(R) (Y) (V)	(R) (B) (R)	(R) (R) (R)	(Y) (Y) (Y)	(Y) (Y) (Y)	(Y) (Y) (Y)	(Y) (Y) (Y)	(R) (R) (R)	(R) (R) (R)	
NORMAL OPERATION	8" FL/Y	8" FL/Y	8" FL/Y	8" FL/Y	8" FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK	DW	DW	←+→
FLASHING OPERATION	8" FL/Y	8" FL/Y	8" FL/Y	8" FL/Y	8" FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	←+→

PEDESTRIAN CROSSING PHASE

FIRST CHANGE INTERVAL	8" Y Quick Flash	8" Y Quick Flash	8" Y Quick Flash	8" Y Quick Flash	8" Y Quick Flash	R R	R R	FL/Y	FL/Y	FL/Y	FL/Y	DW	DW	+ O -
SECOND CHANGE INTERVAL	12" Y	12" Y	12" Y	12" Y	12" Y	R R	R R	FL/Y	FL/Y	FL/Y	FL/Y	DW	DW	
PED PHASE	R	R	R	R	R	R R	R R	FL/Y	FL/Y	FL/Y	FL/Y	WK	WK	
PED CLEARANCE	R	R	R	R	R	R R	R R	FL/Y	FL/Y	FL/Y	FL/Y	FL/DW	FL/DW	
PED CHANGE	8" FL/Y	8" FL/Y	8" FL/Y	8" FL/Y	8" FL/Y	FL/R DARK	FL/R DARK	DARK	DARK	DARK	DARK	DW	DW	

WIRING DIAGRAM

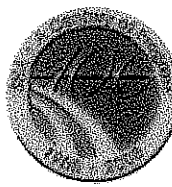


KEY

- A.B 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C.D 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) {PUSHBUTTON}
- E STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
- F EXISTING INTERCONNECT CABLE
- EC EXISTING CABLE



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION



MD 193 (WEST UNIVERSITY BOULEVARD)

AT REEDIE AVENUE
WHEATON, MARYLAND

TRAFFIC SIGNAL - GENERAL INFORMATION

SCALE NONE ADVERTISED DATE NOVEMBER 2008 CONTRACT NO. MO2835176

DESIGNED BY MEV COUNTY MONTGOMERY
DRAWN BY LJM LOGMILE 15019301.96
CHECKED BY JWH TMS NO. J198
F.A.P. NO. SEE TITLE SHEET TOD NO.

TS NO. 3846 DRAWING SG-06 OF 10 SHEET NO. OF

BY: mverotsky

